AUTHOR INDEX

Adam, Y. 434 Adamczyk, T. 195 Alabi, B. 62 Allan, M. N. M. Appleby, P. G. 341 109 Athienitis, A. K. Barney, G. C. 89 Beckers, P. M. 395 Benefield, L. 454 Beskos, D. E. 358 Bickley, D. T. 2 189, 195 Burczynski, T. 27 Burgess, G. 27 Burley, R. 33 Carpenter, M. H. Casulli, V. 215 Chandra, A. 175 Chandrashekar, M. 109 Coffou, E. 325 Cook, A. E. 72 Cowin, S. C. Crawford, J. R. 207 Dauer, J. P. 21 Davies, A. M. 409, 419

Davies, T. W. 337 Davis, E. 347 Davis, G. B. 69 Deutsch, S. J. 53 Dorsett, M. J. 131 Dreyer, T. P. 163 Dyke, P. P. G. 42 Evans, D. J. 201 429 Forrström, J. P. 117 Garg, V. K. 220 Greenspan, D. 215 Haddock, J. 370 Hearne, J. W. 10 106 Henderson-Sellers, B. Herbert, A. W. Hullett, J. F. 21 Johnson, J. A. 403 Konecny, F. 11 Kuo, C. Y. 82 Lai, Y. S. 220 Lehn, W. H. 447 Lewis, R. W. 170 Limic, N. 325 Lin, J. K. 358

Liu, H-Y. 21 Liu, Y. 183 Lund, P. D. 117 Mahajerin, E. 27 Malmborg, C. J. 53 Marksjö, B. S. 207 McGuire, G. R. 33 Mehlmann, A. 353 Melachrinoudis, E. 365 Michalopoulos, P. G. Millham, C. B. 314 Mishins, P. A. 139 Mitchell, J. R. 207 Morgan, K. 170 Mosetti, R. 321 Mukherjee, S. 175 Murray, D. M. 163 Nachtnebel, H. P. 11 Nair, S. 220 Neves, R. J. 395 Ozkaynak, F. T. Parlar, M. 125 Pentzaropoulos, G. C. 89 Puri, A. N. 82

Ramos, J. I. 40, 99 Reed, R. B. 454 Robertson, T. 429 Rodriguez, N. 370 Rosinger, E. E. Ryrie, S. C. Samonds, M. Sarin, S. C. 139 Saunders, R. 385 Sharpe, R. 207 Shieh, L.S. 93 Shih, L. Y. 380 Sousa, A. C. M. 380 Sullivan, H. F. 109 Swindells, W. 89 375 Tucker, P. Tunc, M. M. 16 Wai, P-C. 33 Wong, K. F. V. Wyskida, R. M. Yates, R. E. 93 Ye, T. Q. 183 Yeh, G. 347 Zhu, J. 93

SUBJECT INDEX

Activated sludge model which considers toxicant concentration: simulation and sensitivity analysis, An 454

Advection-diffusion numerical models, Nonlinear instability in 434

Aircraft heuristic route selection model, A minimum-exposure, minimum elevation military 131

Alternative group explicit method for the diffusion equation 201

Analysis of traffic flow by the finite

element method 358

Analytical contour integration method for handling body forces in elasticity, An 27

nanding body forces in elasticity, An 27 Analytical solutions to the three-dimensional radio-nuclide transport equation for computer code verification 154 Approach to modelling industrial unit processes: application to a spiral concentrator for minerals Ap. 375

concentrator for minerals, An 375 Aquifer management under transient and steady-state conditions, A multi-objective optimization model for 21

Arch, Particle modelling of an elastic 215 Atmospheric surface layer, A simple parabolic model for the optics of the 447

Axial flow package dyeing machine, Numerical simulation of an 33

Boundary element formulation for multiparameter structural shape optimization, The 195

Boundary element formulation for sheet metal forming, A 175 Boundary element method, Finite deflection analysis of elastic plate by the 183 Boundary element method for stochastic potential problems, The 189

Buildings, An interactive model for the layout of 207

layout of 207

Cable shape with application to the positioning of a towed sensor, Pre-elimination approach to the modelling of segmented representations of 163

segmented representations of 163
Castings employing an implicit-explicit
algorithm, Finite element modelling of
solidification in sand 170

Channel flow using the $k-\epsilon$ turbulence model and the penalty function finite element technique, Numerical modelling of subcritical open 82

Computer code verification, Analytical solutions to the three-dimensional radionuclide transport equation for 154

Coordinated movements to avoid collisions of a twin robot system 380

Current modelling, A minimization problem in residual 325

Determining an optimum location for an undesirable facility in a workroom environment 365

Differential boundary problems, Note on a proposed weighted residual method for solving nonlinear 385

Differential games, State transformations and the derivation of Nash closed-loop equilibria for non-zero-sum 353

Diffusion-convection equation over a finite domain, a Laplace transform technique for the analytical solution of a 69

Diffusion equation, Alternative group explicit method for the 201 Discrete-time data and their application,

Fitting continuous-time and 93 Dynamic model to forecast incapacitation and deterrence effects, A 53

Dynamic stability of a curved rail under a moving load 220

Eddy diffusion thermocline models, New formulation of 441

Elasticity, An analytical contour integration method for handling body forces in 27 Elastic media, A mapping finite difference model for infinite 62

Elastic plate by the boundary element method, Finite deflection analysis of 183 Evaluation of pressure levels in pipelines

due to solar heat gains 16 'Exact bounds on average granular pressures in a general bin model', Remarks on the

paper 143

Extreme value processes and the evaluation of risk in flood analysis 11 Field validation of the geohydrology

simulation model, FEWA 347
Finite deflection analysis of elastic plate by the boundary element method 183

Finite domain, A Laplace transform technique for the analytical solution of a diffusion-convection equation over a

Finite element method, Analysis of traffic flow by the 358

Finite element modelling of solidification in sand castings employing an implicit-explicit algorithm 170

Fitting continuous-time and discrete-time data and their application 93 Flood analysis, Extreme value processes and

the evaluation of risk in 11 Flow in a coastal trench, A stratified model

Forest management system, Use of stochastic control theory to model a 125 Geohydrology simulation model, FEWA,

Field validation of the 347 Ground motion, Torsional oscillations in

structures subject to 99 Implicit-explicit algorithm, Finite element modelling of solidification in sand castings

employing an 170 Incapacitation and deterrence effects,

A dynamic model to forecast 53 Industrial unit processes: application to a spiral concentrator for minerals, An approach to modelling 375

Integration method for handling body forces in elasticity, An analytical contour

Interactive computing environment, A model for obtaining waiting time estimates An interactive model for the layout of buildings 207

Laplace transform technique for the analytical solution of a diffusionconvection equation over a finite domain, A 69

Lubrication theory, Some asymptotic results in hydrodynamic 72

Mapping finite difference model for infinite elastic media, A 62

Mathematical analysis of the MPS MX missile system 139 Mathematical modelling of spark-ignition engines 40

Metal forming, A boundary element formulation for sheet 175

Minerals, An approach to modelling industrial unit processes: application to a spiral concentrator 375

Minimization problem in residual current modelling, A 325

Minimum-exposure, minimum elevation military aircraft heuristic route selection model, A 131

Missile system, Mathematical analysis of the MPS MX 139 Model for infinite elastic media, A mapping

finite difference 62

Model for obtaining waiting time estimates in an interactive computing environment, A 89

Modelling a product-mixed determination problem 370

Modelling and analysis of thermal networks through subnetworks for multizone passive solar buildings 109

Modelling of segmented representations of cable shape with application to the positioning of a towed sensor, Preelimination approach to the 163

Multi-objective optimization model for aquifer management under transient and steady-state conditions, A 21 New formulation of eddy diffusion

thermocline models 441 Nonlinear instability in advectiondiffusion numerical models 434 North European continental shelf,

A semi implicit tidal model of the Note on a proposed weighted residual method for solving nonlinear

differential boundary problems Numerical methods for linear and nonlinear PDEs, Propagation of round-off errors and the role of stability in 331

Numerical modelling of subcritical open channel flow using the $k-\epsilon$ turbulence model and the penalty function finite element technique 82

Numerical simulation of an axial flow package dyeing machine 33 On determining current profiles in

oscillatory flows 419 On determining the profile of steady wind-induced currents 429

Optimal control of sea level in a tidal basin by means of the Pontryagin maximum

principle 321 Optimally controlled hydrodynamics for tidal power in the Severn Estuary

Optimization of operating strategies in a community solar heating system 117 Optimization, The boundary element formulation for multiparameter

structural shape 195
Oscillatory flows, On determining current profiles in 419

Parameter combinations, Sensitivity analysis

Particle modelling of an elastic arch 215

Pipelines due to solar heat gains, Evaluation

of pressure levels in 16 Plane deformation of fibre-reinforced viscoelastic plates, On the 341 Pre-elimination approach to the modelling

of segmented representations of cable shape with application to the positioning of a towed sensor 163

Product-mixed determination problem, Modelling a 370 Propagation of round-off errors and the role

of stability in numerical methods for linear and nonlinear PDEs 331

Rail under a moving load, Dynamic stability of a curved 220

Remarks on the paper 'Exact bounds on average granular pressures in a general bin model' 143

Risk in flood analysis, Extreme value processes and the evaluation of 11 Sea level in a tidal basin by means of the Pontryagain maximum principle, Optimal

control of 321 Seeded eddies, The simulation of offshore

turbulent dispersion using 429 Semi-implicit tidal model of the North European continental shelf, A 395

Sensitivity analysis of parameter combinations 106

Simple parabolic model for the optics of the atmospheric surface layer, A Simulation of offshore turbulent dispersion

using seeded eddies, The 429 Sludge model which considers toxicant concentration: simulation and sensitivity analysis, An activated 454

Solar buildings, Modelling and analysis of thermal networks through subnetworks for multizone passive 109

Solar heat gains, Evaluation of pressure levels in pipelines due to 16 Solar heating system, Optimization of

operating strategies in a community 117 Some asymptotic results in hydrodynamic lubrication theory 72

Spark-ignition engines, Mathematical modelling of 40

State transformations and the derivation of Nash closed-loop equilibria for non-zero-sum differential games 353

Stochastic control theory to model a forest management system, Use of 125 Stochastic potential problems, The

boundary element method for 189 Stratified model of flow in a coastal trench, A 403 Structures subject to ground motion,

Torsional oscillations in 99 Torsional oscillations in structures subject

to ground motion 99 Traffic flow by the finite element method, Analysis of 358

Transient conduction in a plate with counteracting convection and thermal radiation at the boundaries 337

Transport equation for computer code verification, Analytical solutions to the three-dimensional radio-nuclide Twin-robot system, Coordinated

movements to avoid collisions of a 380 Undesirable facility in a workroom environment, Determining an optimum

location for an 365 Use of stochastic control theory to model a forest management system 125

Using hydropower to smooth intermittent and unreliable sources of generation 314 Viscoelastic plates, On the plane deformation of fibre-reinforced 341

Wind-induced currents, On determining the profile of steady 409

